

FEATURES:

- RoHS compliant
- 24 Pin DIP Package
- Low profile plastic package
- High efficiency up to 82%
- Operating temperature -40°C to + 85°C
- Input / Output Isolation 6000VDC
- Pin compatible with multiple manufacturers

Models

Single output

Model	Input Voltage (V)	Output Voltage (V)	Output Current max (mA)	Isolation (VDC)	Efficiency (%)
AM2N-0505SH60-NZ	4.5-5.5	5	400	6000	78
AM2N-0509SH60-NZ	4.5-5.5	9	222	6000	79
AM2N-0512SH60-NZ	4.5-5.5	12	167	6000	80
AM2N-0515SH60-NZ	4.5-5.5	15	133	6000	80
AM2N-1205SH60-NZ	10.8-13.2	5	400	6000	79
AM2N-1209SH60-NZ	10.8-13.2	9	222	6000	80
AM2N-1212SH60-NZ	10.8-13.2	12	167	6000	82
AM2N-1215SH60-NZ	10.8-13.2	15	133	6000	82

Models

Dual output

Model	Input Voltage (V)	Output Voltage (V)	Output Current max (mA)	Isolation (VDC)	Efficiency (%)
AM2N-0505DH60-NZ	4.5-5.5	±5	±200	6000	78
AM2N-0509DH60-NZ	4.5-5.5	±9	±110	6000	79
AM2N-0512DH60-NZ	4.5-5.5	±12	±84	6000	80
AM2N-0515DH60-NZ	4.5-5.5	±15	±67	6000	80
AM2N-1205DH60-NZ	10.8-13.2	±5	±200	6000	79
AM2N-1209DH60-NZ	10.8-13.2	±9	±110	6000	80
AM2N-1212DH60-NZ	10.8-13.2	±12	±84	6000	82
AM2N-1215DH60-NZ	10.8-13.2	±15	±67	6000	82

Input Specifications

Parameters	Conditions	Typical	Maximum	Units
Voltage range		4.5-5.5 10.8-13.2		VDC
Filter		Capacitor		

Isolation Specifications

Parameters	Conditions	Typical	Maximum	Units
Rated voltage	60 sec	6000		VDC
Resistance		>1000		MOhm

Output Specifications

Parameters	Conditions	Typical	Maximum	Units
Voltage accuracy		See tolerance graph		
Short Circuit protection	1 sec			
Line voltage regulation (Single)	For 1.0% of Vin		±1.2	%
Line voltage regulation (Dual)	For 1.0% of Vin		±1.2	%
Load voltage regulation (Single)	Load 10-100%		15	%
Load voltage regulation (Dual)	Load 10-100%		15	%
Temperature coefficient			±0.03	%/°C
Ripple & Noise	At 20MHz Bandwidth		100	mV p-p

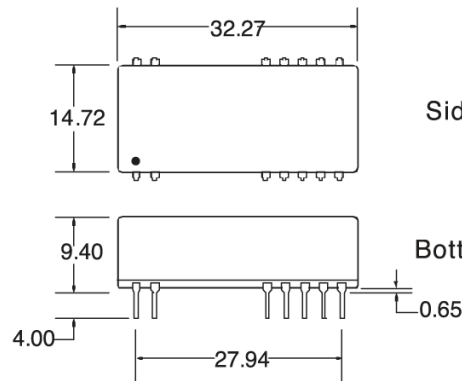
General Specifications

Parameters	Conditions	Typical	Maximum	Units
Switching frequency	100% load	35		KHz
Operating temperature	Without derating	-40 to +85		°C
Storage temperature		-55 to +125		°C
Case temperature			95	°C
Cooling	Free air convection			
Humidity	Non condensing		90	%
Case material		Plastic UL94-VO		
Weight		16		g
Dimensions		1.27 x 0.58 x 0.37 inches		32.3 x 14.7 x 9.4 mm
MTBF		>1 000 000 hrs (MIL-HDBK -217F, Ground Benign, t=+25°C)		

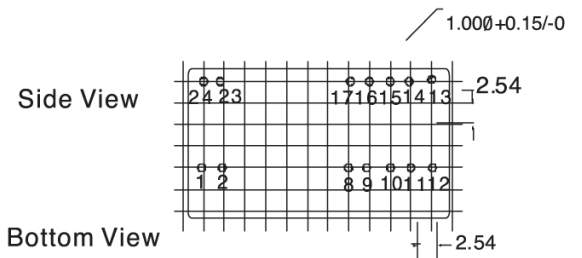
Pin Out Specifications

Pin	Single	Dual
1	+V Input	+V Input
2	-V Input	-V Input
8,17	N.C.	-V Output
10,15	-V Output	Common
12,13	+V Output	+V Output

Dimensions

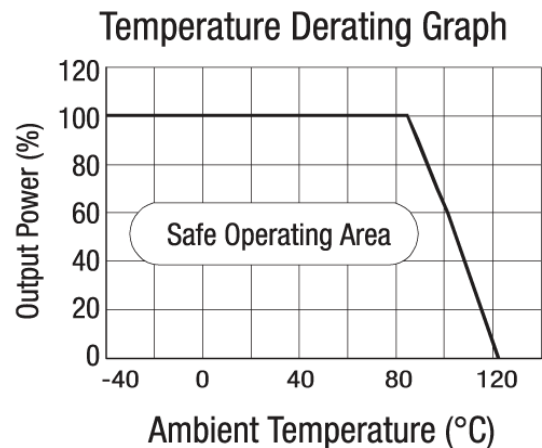
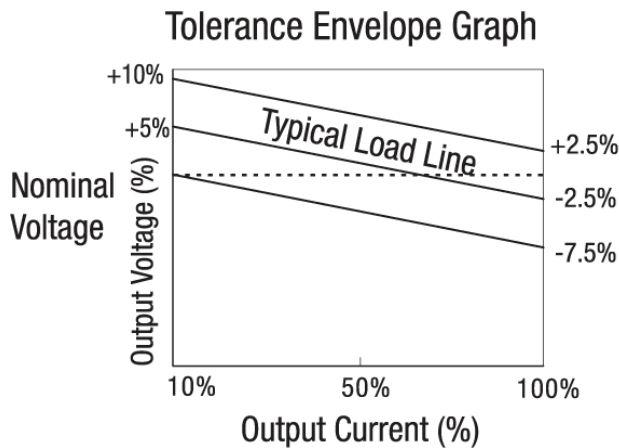


Footprint

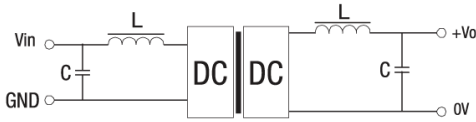


Note: All Pins on a 2.54mm pitch; all pin diameters are 0.50mm; all dimensions in mm.

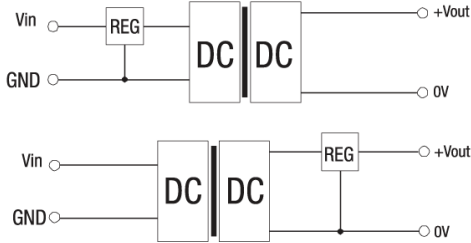
Typical characteristics



Filtering single output

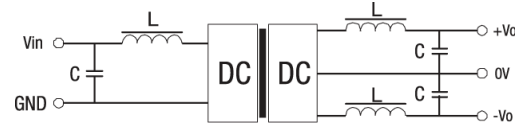


<Figure 1>

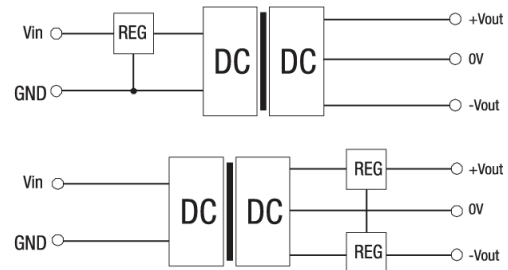


<Figure 2>

Filtering dual output



<Figure 1>



<Figure 2>

External capacitor – Single output

Vin (VDC)	External capacitor (uF)	Vout (VDC)	External capacitor (uF)
5	4.7	5	10
12	2.2	9	4.7
24	1	12	2.2
-	-	15	1

External capacitor – Dual output

Vin (VDC)	External capacitor (uF)	Vout (VDC)	External capacitor (uF)
5	4.7	5	4.7
12	2.2	9	2.2
24	1	12	1
-	-	15	0.47